

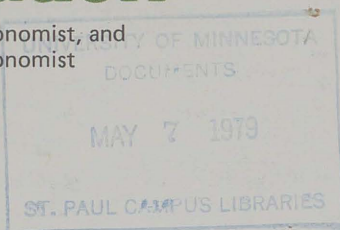
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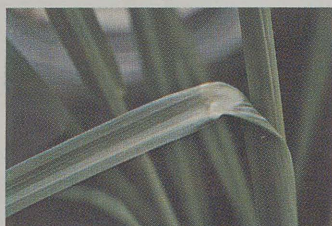
Annual Grass and Perennial Weed Seedling Identification

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1. Barnyardgrass



4. Foxtail, giant



2. Crabgrass, large



5. Foxtail, green



3. Oat, wild



6. Foxtail, yellow



7. Panicum, fall



12. Nutsedge, yellow



8. Proso millet, wild



13. Quackgrass



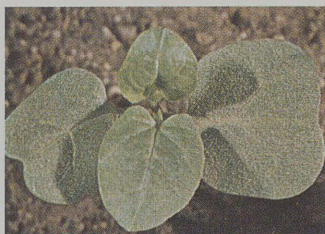
9. Artichoke, Jerusalem



14. Sowthistle, perennial



10. Bindweed, field



15. Thistle, Canada



11. Bindweed, hedge





Descriptions of Annual Grass and Perennial Weed Seedlings

Annual Grass Seedlings

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|-----------------------|---|
| 1. Barnyardgrass | Leaf sheath open, flattened; leaf blade smooth and hairless; no ligule. |
| 2. Crabgrass, large | Leaf sheath round, hairy, open; leaf blade wide, hairy; ligule membranous. |
| 4. Foxtail, giant | Leaf sheath round, pubescent, open; leaf blade with dense covering of fine hairs on upper surface, few scattered hairs on lower surface; ligule a fringe of hairs. |
| 5. Foxtail, green | Leaf sheath round, pubescent, open; leaf blade relatively free of hairs on both surfaces; ligule a fringe of hairs. |
| 6. Foxtail, yellow | Leaf sheath flattened, open, relatively hairless; leaf blade has scattered long whitish hairs toward base, otherwise hairless; ligule a fringe of hairs. |
| 3. Oat, wild | Leaf sheath pubescent, round, open; leaf blade smooth and hairless except often has scattered hairs on leaf margin toward base of leaf; ligule prominent, membranous. |
| 7. Panicum, fall | Leaf sheath round, open, smooth and free of hairs; leaf blade hairless; ligule a fringe of hairs. |
| 8. Proso millet, wild | Leaf sheath round, open, prominently veined, coarse hairy; leaf blade wide, hairy; ligule a fringe of hairs. |

Perennial Weed Seedlings

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|---------------------------|---|
| 9. Artichoke, Jerusalem | Cotyledons ovate to spatulate rough; leaves opposite, hairy, prominent midvein, petiole short; stem white-hairy; plant erect. |
| 10. Bindweed, field | Cotyledons broad, shallow notch at tip; leaves somewhat heart-shaped to arrowhead-shaped, alternate; plant vine-like, twining or trailing. |
| 11. Bindweed, hedge | Cotyledons broad, notched at tip; leaves arrowhead-shaped with "cut-away corners" at base, leaves larger than field bindweed leaves, alternate; plant vine-like, twining. |
| 12. Nutsedge, yellow | Leaves three-ranked with triangular stem, numerous fine veins visible on leaf sheath; no ligule as in grasses. |
| 13. Quackgrass | Leaf sheath round, open, pubescent; leaf blades may be smooth or pubescent; ligule membranous, short; older leaves bear a pair of auricles (short claw-like appendages that are attached to the leaf collar at base of blade); plants may arise from seed or from white rhizomes (underground stems). |
| 14. Sowthistle, perennial | Cotyledons oval, short stalked; leaves ovate with slightly toothed or prickly margins, long petioles, leaves alternate; plant erect, plant contains milky juice. |
| 15. Thistle, Canada | Cotyledons ovate to linear, thick and fleshy; first leaves ovate with prickly margins, successive leaves more wrinkled and spiny, leaves alternate; plant erect. |